

High Performance Laser Diode Series

Ultraviolet in TO-9 CAN Package

KLC310FL01WW

■ Overview

Nuvoton Technology Corporation Japan provides a series of ultraviolet laser diode. The laser diode which emits 378nm laser light, is assembled in a conventional TO-9 CAN package. Unique compound semiconductor process technology and low optical loss structure can realize high output power and high reliability lasers which are suitable for industrial use.

■ Features

- Wavelength: 378 nm (typ.)
- High Output Power, Multiple Transverse Mode
- Emitter Size: 15um x 1um
- Conventional TO-9 Package , 2pin

■ Applications

- Laser Direct Imaging
- Material Processing
- Analysis, Measurement
- Display
- Other Industrial Use

■ Absolute Maximum Ratings

Item	Symbol	Value	Unit	Condition
Output power	Po	0.6	W	CW
Operating case temperature	Tc	+20 to +30	°C	CW
Storage temperature	Tstg	-40 to +85	°C	-

■ Electrical and Optical Characteristics

Tc=25°C, CW

Item		Symbol	Min.	Typ.	Max.	Unit	Condition
Threshold current		Ith	-	340	500	mA	-
Operating current		Iop	420	620	820	mA	0.5W
Operating voltage		Vop	-	5.0	5.5	V	0.5W
Wavelength		λ	-	378	380	nm	0.5W
Beam divergence	Parallel ¹⁾	θ_h	10	18	28	deg	0.5W
	Perpendicular ¹⁾	θ_v	32	39	46	deg	0.5W

Note) 1) Full width at 1/e² of the peak intensity.

